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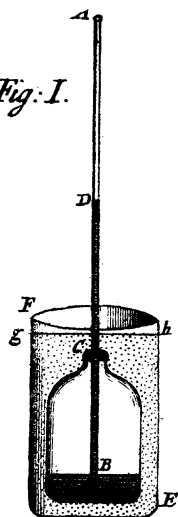
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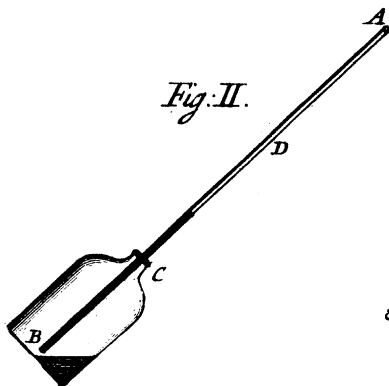
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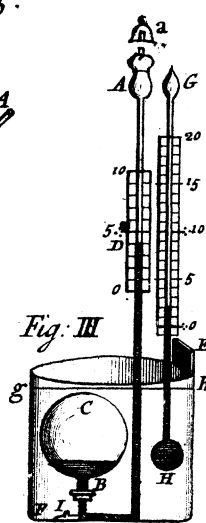
*Fig. I.*



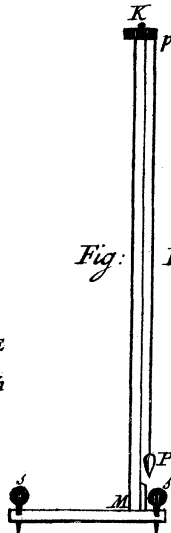
*Fig. II.*



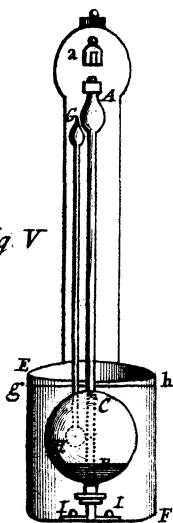
*Fig. III.*



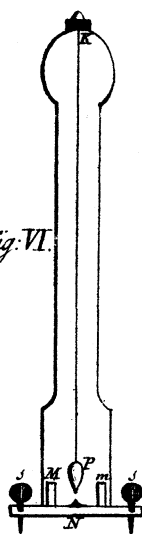
*Fig. IV.*



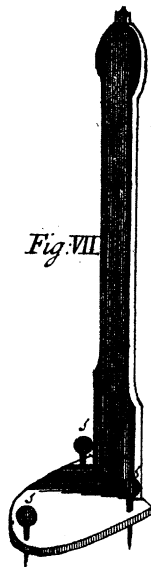
*Fig. V.*



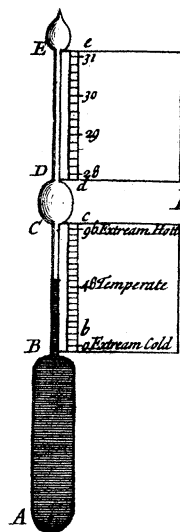
*Fig. VI.*



*Fig. VII.*



*Fig. VIII.*



## VI. *Barometri novi descriptio, a D. G. Fahrenheit, R. S. S.*

**I**N recensione experimentorum nonnullorum circa ebullitionem quorundam liquorum a me factorum mentionem feci, gradum caloris aquæ ebullientis termino tunc memorato, 212 nempe graduum coerceri; postea variis observationibus atque experimentis edoctus sum terminum hunc, manente eadem atmosphæræ gravitate, fatis fixum esse, sed variante gravitate atmosphæræ hunc terminum quoque diversimode variari posse. Experimenta in hunc scopum jam facta nunc quidem traderem, sed quoniam adhuc de certis circumstantiis edoctus esse velim, hinc recensionem illorum usque in aliud tempus reponam, & interea solummodo thermometri alicujus mentionem faciam, quod forsitan si non magis, tamen æque idoneum erit ad explorandam atmosphæræ gravitatem, quam barometrum. Hujus delineatio in Figura VIII. est apposita.

Cylindro A B annectitur tubus B C, cui additur globulus oblongus C D, & huic tubulus gracillimo foramine præditus D E. Cylindrus liquore quodam, qui calorem aquæ ebullientis perferre potest, replebitur. In tubulo B C, gradus caloris in aere obvii mensurabuntur ope scalæ affixæ *b c*. Si autem thermometrum hocce aquæ bullienti imponatur, liquor thermometri non solum globulum C D implebit, sed etiam usque ad terminos varios tubuli D E assurget, secundum gradum caloris, quem aqua tempore experimenti a gravitate atmosphæræ acquisitura est. Ita, si, exempli gratia, tempore experimenti altitudo mercurii in barometro sit 28 pollicum Londinensium, liquor in hocce thermometro attinget  
infi-

infimum locum in tubulo D E ; Si vero gravitas atmosphææ æquipolleat altitudini mercurii triginta & unius pollicum, liquor a calore aquæ ebullientis usque ad locum supremum tubuli D E attolletur, termini varii autem caloris aquæ ebullientis non gradibus, sed illorum loco numeris digitorum, quibus altitudo mercurii in barometris vulgo mensuratur, ope nempe scalæ additæ de denotabuntur.

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VII. *Observatio Lunaris Eclipsis habita Ulyssipone in Palatio Regio Die 1. Novembris 1724. A PP. Joanne Baptista Carbone, & Dominico Capasso, Soc. Jesu. Communicante Excellentissimo Domino, D<sup>no</sup> de Galvaon, Commendatore Villæ Meam & Francæ, Equ. Ord. Christ. Legato Sereniss. Reg. Portugall. ad Sereniss. Regem Magn. Britan. S. R. S.*

**O**bservavimus hanc Eclipsim Telescopiis, altero quidem Pedum Parisinorum 8. sed clarissimo, altero 10. sed minus claro : utroque tamen lunares maculæ perfectissimè discernebantur. Ad temporis dimensionem usi sumus Horologio oscillatorio, vulgo *Pendula*, satis exacto, pluribus ante diebus in ipso observationis loco firmato, & quotidiano examine per meridianam lineam, ibidem a nobis jamdiu inventam, & pluries examinatam, ad medium Solis motum quam proxime reducto. Nocte vero ipsius Eclipsis ter illud ad trutinam revocavimus, ut ejus a vero tempore discordiam deprehenderemus. Primo in transitu *Fomabantis* per Meridianum, Hor. 8. M. 17. Sec. 18. Secundo in transitu *Rigel* seu *Pedis Lucidi Orionis*, Hor. 2. M. 35. Sec. 21. Tercio